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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825,418	04/03/2001	Yoshio Awakura	0694-135	2050
75	90 05/24/2002			
Hopgood, Calimafde, Judlowe & Mondolino			EXAMINER	
60 East 42nd Street New York, NY 10165			DINH, T	UAN T
			ART UNIT	PAPER NUMBER
			2827	
			DATE MAILED: 05/24/2002	!

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Addien Supplement	09/825,418	AWAKURA ET AL.
Office Action Summary	Examiner	Art Unit
	Tuan T Dinh	2827
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	.136(a). In no event, however, may oly within the statutory minimum of t I will apply and will expire SIX (6) Mo te, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on <u>06</u>	March 2002 .	
2a)☐ This action is FINAL . 2b)⊠ T	his action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims	r <i>Ex part</i> e Quayle, 1935 (C.D. 11, 453 O.G. 213.
4) \boxtimes Claim(s) 1,2,4-19,22 24 and 26-39 is/are per	nding in the application.	920102
4a) Of the above claim(s) 3,20-21,25 is/are wi	thdrawn from considerati	on.
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1,2,4-7,19,22-24,26-28 and 31</u> is/are	e rejected.	
7) Claim(s) <u>8-18,29,30 and 32-39</u> is/are objected	d to.	
8) Claim(s) are subject to restriction and/	or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examin	er.	
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b)☐ objected to b	y the Examiner.
Applicant may not request that any objection to t	- · ·	
11)☐ The proposed drawing correction filed on	_ is: a)□ approved b)□	disapproved by the Examiner.
If approved, corrected drawings are required in re		
12) ☐ The oath or declaration is objected to by the E	xaminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C	C. § 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1. Certified copies of the priority documer	nts have been received.	
2. Certified copies of the priority documer	nts have been received in	Application No
 3. Copies of the certified copies of the prication from the International B * See the attached detailed Office action for a lis 	ureau (PCT Rule 17.2(a)).
14)☐ Acknowledgment is made of a claim for domes	tic priority under 35 U.S.	C. § 119(e) (to a provisional application).
 a) ☐ The translation of the foreign language present 15)☐ Acknowledgment is made of a claim for domest 		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 31 recites the limitation "said magnetic loss material..." in lines 1-3. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-2, 6, 9, 22-24, 26, 28, and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Katsumi (JP 401235662A).

As to claim 1, 19, and 31, Katsumi discloses a wiring board as shown in figures 2a-2d comprising:

an insulative base material (3-figure 2a);

conductor patterns (2-figure 2a) formed thereon; and

magnetic thin films (5-figure 2b) formed on said conductor pattern.

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As to claim 2, Katsumi discloses a wiring board as shown in figures 2a-2d wherein said magnetic thin films are formed on said conductor patterns along outer surfaces of said conductor patterns (see figure 2b).

As to claim 6, Katsumi discloses a wiring board as shown in figures 1-5 wherein said magnetic thin films are produced by at least one of sputtering and vapor deposition.

As to claim 22, Katsumi discloses a wiring board as shown in figures 1-5 wherein said conductor part comprises signal line conductor patterns (2-figure 2a-silver solder layer).

As to claim 23, Katsumi discloses a wiring board as shown in figures 1-5 wherein said magnetic thin film is formed on said signal line conductor patterns (5-figure 2b).

As to claim 24, Katsumi discloses a wiring board as shown in figures 1-5 wherein said magnetic thin films are formed so as to be separated from signal line conductor patterns in portion where said signal line conductor patterns are not formed.

As to claim 26, Katsumi discloses a wiring board as shown in figures 1-5 wherein said magnetic thin film is fabricated by at least one method of sputtering and vapor deposition.

As to claim 28, Katsumi discloses a wiring board as shown in figures 1-5 wherein said wiring board is a multilayer printed wiring board comprising a structure of at least 3 layers.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 4-5, 7, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katsumi in view of Murada et al. (U. S. Patent 5,493,074).

As to claims 4-5, Katsumi does not disclose said insulative base material is configured of a flexible material, and said flexible material is a polyimide.

Murada shows an insulative base (1) disclosed in figures 2-3 comprising a flexible material (column 3, line 60) made by a polyimide (column 3, line 62).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a flexible polymide insulation base as taught by Murada to employ the wiring board of Katsumi in order to provide exhibiting insulating properties, flex life for the circuit board, and low cost for manufacture.

As to claims 7 and 27, Katsumi does not disclose thickness of said magnetic thin films is within range of 0.3 μm to 20 μm . Murada shows a thickness of metal foil (3-figure 2a) is 18 μm .

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a thickness of metal foil as taught by Murada to provide the

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thickness of the magnetic thin film of Katsumi in order to reduce an electrical resistivities.

Response to Arguments

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7. Applicant's arguments with respect to claims 1-2, 4-19, 22-24, and 26-39 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 703-306-5856. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-1341 for regular communications and 703-305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TD May 20, 2002

KAMAND CUNEO PRIMARY EXAMINER